

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

REC'D 18 AUG 2005

PCT

To:

LEITZINGER OY
Tammasaarekatu 1
00180 Helsinki
Finland

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year)

16-08-2005

Applicant's or agent's file reference

16124PC RO

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/FI2005/050105

International filing date (day/month/year)

23.03.2005

Priority date (day/month/year)

26.03.2004

International Patent Classification (IPC) or both national classification and IPC

B23B 41/04

Applicant

T-DRILL OY et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further opinions, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/SE
Patent- och registreringsverket
Box 5055
S-102 42 STOCKHOLM

Facsimile No. +46 8 667 72 88

Authorized officer

Fredrik Strand/MP

Telephone No. +46 8 782 25 00

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/FI2005/050105

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

- ☐ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2-4	YES
	Claims	1	NO
Inventive step (IS)	Claims		YES
	Claims	1-4	NO
Industrial applicability (IA)	Claims	1-4	YES
	Claims		NO

2. Citations and explanations:

Cited document:

D1: DE 3208211 A1

D2: US 4503693 A1

The invention relates to an apparatus for cutting an oval hole in the wall of a pipe. The primary object of the invention is to provide an improved and simpler apparatus, which also is readily adjustable, for cutting an oval hole.

Document D1 represents closest background art.

Claim 1

Document D1 reveals an apparatus (fig. 1) for cutting an oval hole in the wall of a pipe. It comprises a power unit (10), a spindle (3) with gear drive and a cutting tool (2), essentially according to the preamble of the claim. In order to perform an elliptic movement of the cutting tool, the tool also comprises a disc (13) with a cam and an adjustable roller (14). The cam is shaped to provide the required axial displacement of the spindle during a full spindle revolution. This will result in an elliptical hole.

Consequently, the claims lack novelty.

For a further example see document D2 where an apparatus (fig. 2) which is able to cut oval holes in the wall of a pipe is revealed.

Claims 2-4

According to what is revealed through document D1 together

.../...

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

with general knowledge in the field, the statements in claims 2-4 seem to be solutions obvious to the person skilled in the art.

Therefore, the claims lack inventive step.

According to the arguments stated above, the invention according to claim 1 lacks novelty but claims 2-4 are novel. Claims 1-4 are not considered to involve an inventive step. The invention according to claims 1-4 is considered to be industrially applicable.

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S-102 42 STOCKHOLM

Facsimile No. +46 8 667 72 88

Authorized officer

Fredrik Strand/MP

Telephone No. +46 8 782 25 00

Form PCT/ISA/237 (cover sheet) (April 2005)

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PCT/FI2005/050105

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